

Drop Bar Gauge

Gauge Dimensions	12" long 0.75" O.D.	Material	17-4 Stainless (Other materials available)	Pressure Specifications	3k, 6k, 10k or 15k 750psi, 1500psi
Temperature Specifications	Up to 175°C (347°F)	Pressure Accuracy	+/- 0.015% of full scale	Pressure Resolution	+/- 0.0002% of full scale
Temperature Accuracy	+/- 1°C	Temperature Resolution	+/- 1°C	Memory Capacity	170,000 / 340,000 / 510,000 or 680,000 Data Set Points
Sample Rate	Variable (Min 1 second)	Battery Type	Single AA Cell	Software Compatibility	Windows 98 Windows 2000 Windows NT Windows XP

The Drop Bar Gauge Assembly was designed to carry two Electronic Memory Recorders inside an enclosure that will be dropped into a Well to fire the Tubing Conveyed Perforating Guns (TCP drop bar firing head).



The drop bar assembly has a series of shock absorbers – one hydraulic and three springs. At impact the hydraulic shock absorber takes the initial compression, similar to a car shock absorber. After the hydraulic shock absorber has compressed approximately 30%, the first spring shock absorber starts to compress. Once the hydraulic and spring shock absorbers are fully compressed a second and third spring absorbs any remaining shock.

In addition to the hydraulic and spring shock absorbers we have also installed nine Rubber Finger Centralizers that keep the Drop Bar Assembly centered in the tubing. These Rubber Finger Centralizers also reduce the velocity of the Bar Assembly by rubbing against the tubing, causing enough friction to reduce the speed at which the bar drops. This in turn reduces the severity of the impact on the firing head.

The combination of hydraulic and spring shock absorbers reduces or eliminates any severe vibration or shock on the Gauge electronics. This ensures that good quality pressure and temperature data is collected while the Drop Bar Assembly is traveling inside the tubing – just prior to, immediately upon and after impact.

Gauge Features

The ¾" gauges have been manufactured by Braemar Reservoir Technologies to exacting specifications. One of the main benefits of the Braemar gauge is reduced power consumption that extends the life of the battery significantly from that of our competitors. These gauges also offer increased resolution and a repeatability that is second to none.

For more information call Neil at (403) 347-3200.

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